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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,158	06/20/2006	Alonso Coronado Luengo	P/4043-223	9071
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OSTROLENK FABER GERB & SOFFEN 1180 AVENUE OF THE AMERICAS NEW YORK, NY 100368403			HOLT, ANDRIAE M	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/553,158	Applicant(s) LUENGO ET AL.
	Examiner Andriae M. Holt	Art Unit 1616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 29 January 2009.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 25-27,29-35,37-43,45-51 and 53-66 is/are pending in the application.
 4a) Of the above claim(s) 33-35,37-40,49-51 and 53-66 is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 25-27,29-32,41-43 and 45-48 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
 2) Notice of Draftperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date 10/14/2005.
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____
- 5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

Claims 25-27, 29-35, 37-43, 45-51, 53-66 are pending in the application. The examiner acknowledges Applicant's amendments set forth in the response on January 29, 2009.

Election/Restrictions

Applicant's election with traverse of group I, claims 25-32 in the reply filed on January 29, 2009 is acknowledged. The traversal is on the ground(s) that the method claims from Groups I-IV have been amended to recite a special technical feature linking together all of the claims of Groups I-IV, which feature is neither taught nor suggested by the cited prior art. This is not found to be persuasive because the special technical feature that links the groups is the (C1-C20) dialkyl ketone peroxides, and these compounds are known in the prior art as set forth in the restriction requirement dated December 31, 2008. Section 1850 [R-7] of the MPEP, Unity of Invention Before the International Searching Authority PCT Rule 13.2 (Circumstances in Which the Requirement of Unity of Invention Is to Be Considered Fulfilled), states that where a group of inventions is claimed in one and the same international application, the requirement of unity of invention referred to in Rule 13.1 shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art. In the instant application, the special technical feature, the (C1-C20) dialkyl ketone peroxides, is

known in the prior art as cited in the references. Even with the claim being amended to state that the (C1-C20) dialkyl ketone peroxides is the only active component, the examples set forth in EP 0775439 use at least one dialkyl (C1-C6) ketone peroxide as the only active ingredient.

Upon further consideration, the examiner will however, rejoin group III, claims 41-43 and 45-48, as disinfecting and sterilizing are often used as synonymous terms and art found on sterilizing an object would also read on disinfecting an object. Groups II and IV-XIV will remain restricted.

The restriction requirement of groups II and IV-XIV is still deemed proper and is therefore made FINAL.

Claims 33-35, 37-40, 49-51, and 53-66 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention and election of species, there being no allowable generic or linking claim. Applicant timely traversed the restriction requirement in the reply filed on January 29, 2009.

Claims 25-27, 29-32, 41-43 and 45-48 will presently be examined to the extent they read on the elected subject matter of record.

Information Disclosure Statement

Receipt of Information Disclosure Statement filed on October 14, 2005 is acknowledged.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 25-27, 29-32, 41-43 and 45-48 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Jimenez (EP 775,439).

Applicant's Invention

Applicant claims a method of sterilizing and disinfecting an object by contacting the object with a sufficient amount of a sterilizing or disinfecting agent to substantially eliminate all life forms from the object. Applicant claims the sterilizing and disinfecting agent is selected from the group consisting of (C1-C20) dialkyl ketone peroxides.

Applicant claims the (C1-C20) dialkyl ketone peroxides are the only active components.

***Determination of the scope of the content of the prior art
(MPEP 2141.01)***

Jimenez et al. teach compositions that contain dialkyl (C1-C6) ketone peroxide preferably ethyl-methyl ketone peroxides and methyl-isobutyl ketone peroxides ((C1-C20) dialkyl ketone peroxides). Jimenez et al. teach the compositions are used for the preservation of organic tissues as well as the preservation and partial regeneration of animal or human organic tissues (col. 3, paragraph 21). Jimenez et al. teach the composition comprise a mixture (in volume %) of 12 to 70% of at least one dialkyl (C1-C6) ketone peroxide; 10 to 15% glycerol (oil); 15 to 75% of at least one alcohol (organic solvent, alcohol; and from 0 to 10% of a marker, stain and/or aromatizing agent (col. 3, paragraph 22). Jimenez et al. teach that ideal alcohols are conventional alcohols, including ethanol, absolute ethanol, and mixtures thereof (col. 5, paragraph 34).

Jimenez et al. teach in example 6, col. 7, paragraphs 46-51, that a human corpse was prepared by external washing with a conventional detergent substance, incision in the skin in the carotid and femoral regions to identify the arteries used for arterial insufflation of the preservatives. Jimenez et al. teach the composition as prepared in example 1 was injected into the corpse. Jimenez et al. teach the corpse was placed in a stainless steel tray with water. Jimenez et al. teach that after two years the corpse did not have any external signs of decay or contamination with fungi although the surrounding water, as well as, the tray was full of green, dark blue and mainly white fungi colonies. Jimenez et al. further teach in example 9 that a dog's head was kept

immersed in a composition prepared according to example 3 for 24 hours. Jimenez et al. teach that after 36 hours it was possible to observe total regeneration of the passive mobility of the jaw, tongue, and eyelids. Jimenez et al. further teach that after two years the head, exposed to room temperature, did not have any sign of loss of the cited qualities, nor any decay or microbiological or fungal contamination (col. 8, paragraphs 59-60).

***Ascertainment of the difference between the prior art and the claims
(MPEP 2141.02)***

Jimenez et al. do not teach that the percentage by volume of the (C1-C20) dialkyl ketone peroxides is less than or equal to 5%.

***Finding of prima facie obviousness
Rationale and Motivation (MPEP 2142-2143)***

It would have been obvious to one of ordinary skill in the art at the time of invention to use the teachings of Jimenez et al. and use a volume concentration of the (C1-C20) dialkyl ketone peroxides at less than or equal to 5% as a matter of routine experimentation and optimization. One skilled in the art at the time the invention was made would have been motivated to use less (C1-C20) dialkyl ketone peroxides in the formulations because Jimenez et al. clearly teach that (C1-C6) dialkyl ketone peroxides, particularly, methyl ethyl ketone peroxide, can be used to preserve (protect from decay by fungi or microbial contaminates), essentially sterilizing and disinfecting the tissues. Thus, the skilled artisan would have been motivated to use less in the formulation with a reasonable expectation of success to optimize results using a lesser amount.

Accordingly, this type of modification would have been well within the purview of the skilled artisan and no more than an effort to optimize results.

Therefore, the claimed invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made because every element of the invention has been fairly suggested by the cited reference.

Claims 25-27 and 41-43 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Brankling (WO 97/47708).

Applicant's Invention

Applicant claims a method of sterilizing and disinfecting an object by contacting the object with a sufficient amount of a sterilizing or disinfecting agent to substantially eliminate all life forms from the object. Applicant claims the sterilizing and disinfecting agent is selected from the group consisting of (C1-C20) dialkyl ketone peroxides. Applicant claims the (C1-C20) dialkyl ketone peroxides are the only active components.

***Determination of the scope of the content of the prior art
(MPEP 2141.01)***

Brankling teaches a method of reducing the souring of hydrocarbons due to bacterial production of hydrogen sulphide gas (page 1, lines 3-5). Brankling teaches the use of peroxy compounds (which are not normally thought of as biocides) are ideally suited to the treatment of bacterially contaminated reservoirs. Brankling teaches the peroxy compounds can both destroy resident bacteria and also act to remove hydrogen sulphide already generated (page 4, lines 24-29). Brankling teaches the decomposition of the peroxy compounds leads to the generation of free radicals which are highly

aggressive towards living cells. Brankling further teaches the free radicals cause damage and ultimately destroy cells such as bacteria (page 5, lines 25-29). Brankling teaches an example of suitable peroxy compounds which may be added to the reservoir flood water includes methyl ethyl ketone peroxide (C1-C20 dialkyl ketone peroxide, methyl ethyl ketone peroxide). Brankling teaches the peroxy compounds will be added to the flood water prior to injection into the reservoir. Brankling teaches in claim 1 a method of inhibiting the growth of bacteria in a hydrocarbon reservoir by introducing a peroxy compound into the reservoir (contacting object with sufficient amount of a sterilizing agent).

***Ascertainment of the difference between the prior art and the claims
(MPEP 2141.02)***

Brankling does not teach that the percentage by volume of the (C1-C20) dialkyl ketone peroxides is less than or equal to 5%.

***Finding of prima facie obviousness
Rationale and Motivation (MPEP 2142-2143)***

It would have been obvious to one of ordinary skill in the art at the time of invention to use the teachings of Brankling and use a volume concentration of the (C1-C20) dialkyl ketone peroxides at less than or equal to 5% as a matter of routine experimentation and optimization. One skilled in the art at the time the invention was made would have been motivated to use less (C1-C20) dialkyl ketone peroxides in the formulations because Brankling teaches that (C1-C6) dialkyl ketone peroxides, particularly, methyl ethyl ketone peroxide, can be used to destroy bacteria in oil and gas reservoirs by injecting the peroxy compound into the flood waters, essentially sterilizing

and disinfecting the tissues. Thus, the skilled artisan would have been motivated to use 5% or less in the formulation with a reasonable expectation of success to optimize results using a lesser amount. Accordingly, this type of modification would have been well within the purview of the skilled artisan and no more than an effort to optimize results.

Therefore, the claimed invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made because every element of the invention has been fairly suggested by the cited reference.

Claims 25-27 and 41-43 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Deppe Hans (EP 0024304). A machine translation of the Deppe Hans was used to apply the rejection.

Applicant's Invention

Applicant claims a method of sterilizing and disinfecting an object by contacting the object with a sufficient amount of a sterilizing or disinfecting agent to substantially eliminate all life forms from the object. Applicant claims the sterilizing and disinfecting agent is selected from the group consisting of (C1-C20) dialkyl ketone peroxides. Applicant claims the (C1-C20) dialkyl ketone peroxides are the only active components.

Determination of the scope of the content of the prior art (MPEP 2141.01)

Deppe Hans teaches a new procedure for the chemo + thermal disinfection and sterilization of mattresses and large volume bed textiles (translation, page 1, paragraph 1). Deppe Hans teaches that many well-known solutions of active substances are

suitable. Deppe Hans teaches that peroxides are particularly preferred because they already show increased radical formation and decay by rise in temperature (translation, page 2, paragraph 7). Deppe Hans further teaches organic peroxides can also be selected because in addition to their biocidal effect caused by spontaneous effect of its decay, a preservative effect remains in the treated material (translation, page 2, paragraph 8). Deppe Hans teaches suitable substances include ketone peroxides (translation, page 2, paragraph 9). Deppe Hans teaches in example 5 the use of a composition using a combination of benzoyl peroxide, methyl ethyl ketone peroxide (methyl ethyl ketone peroxide) in 10 pastes, and isopropanol solution with an available oxygen content of 12 mg/ml. Deppe Hans teach that 3 textile germ carriers were placed between the individual pad situations, so that the evaluation of the carriers could be done. Deppe Hans teaches that before the germ carriers were placed the model feather/spring core mattress was treated with the composition (page 4, example 5) (treating object to sterilize or disinfect).

***Ascertainment of the difference between the prior art and the claims
(MPEP 2141.02)***

Deppe Hans does not teach that the percentage by volume of the (C1-C20) dialkyl ketone peroxides is less than or equal to 5%.

***Finding of prima facie obviousness
Rationale and Motivation (MPEP 2142-2143)***

It would have been obvious to one of ordinary skill in the art at the time of invention to use the teachings of Deppe Hans and use a volume concentration of the

(C1-C20) dialkyl ketone peroxides at less than or equal to 5% as a matter of routine experimentation and optimization. One skilled in the art at the time the invention was made would have been motivated to use less (C1-C20) dialkyl ketone peroxides in the formulations because Deppe Hans teaches that (C1-C6) dialkyl ketone peroxides, particularly methyl ethyl ketone peroxide are used to sterilize and disinfect mattresses and large volume textiles by treating the mattresses with the dialkyl ketone compositions. Thus, the skilled artisan would have been motivated to use 5% or less in the formulation with a reasonable expectation of success to optimize results using a lesser amount. Accordingly, this type of modification would have been well within the purview of the skilled artisan and no more than an effort to optimize results.

Therefore, the claimed invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made because every element of the invention has been fairly suggested by the cited reference.

None of the claims are allowed.

Conclusion

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andriae M. Holt whose telephone number is 571-272-9328. The examiner can normally be reached on 9:00 am-5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Andriae M. Holt
Patent Examiner
Art Unit 1616

/John Pak/
Primary Examiner, Art Unit 1616